



CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory
NABL - Accredited Laboratory as per ISO / IEC-17025 :2005



Job No.: CTCE/BBMP/W.No.02/L/CSR.1/749c/CEMENT/2014-15

Date: 30.01.2015

TEST REPORT ON CEMENT

* CUSTOMER	: Asst. Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
* AGENCY	: Mr. Lingaraju, # 95, 5 th Cross, C.T. Bed, B.S.K 2 nd Stage, Bangalore.
* NAME OF THE WORK	: Providing CC Covering to existing SWD Drain near Easwarappa House Kamakshamma Layout in Ward No.02 of Yelahanka Sub Division, BBMP, Bangalore.
REFERENCE	: AEE/BBMP/YSD/AE-2/2014-15 Dated: 28.01.2015
SAMPLE ID	: Cement - (Sample - 1)
SAMPLE RECEIVED ON	: 28.01.2015
PERIOD OF TESTING	: 28.01.2015 to 30.01.2015

The results of the tests conducted on the cement sample are as follows:

SL No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 8112-2013
1	Standard Consistency	IS-4031 (Part -4) 1988(RA-2009)	28.50 %	-
2	a) Initial Setting Time	IS-4031 (Part -5) 1988(RA-2009)	160 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5) 1988(RA-2009)	485 Minutes	Not More than 600 Minutes
3	Soundness by Le Chartier Method	IS-4031 (Part-3) 1988(RA-2009)	1 mm	Not more than 10mm

*Information is furnished by the Customer/Representative.

Note:

- ⇒ The report shall not be reproduced, except in full, without the written approval of the laboratory.
- ⇒ The results indicated above are based on the tests carried out on the samples received in the laboratory.
- ⇒ Any Query regarding the report must be reported within 30 days from the date of testing.

VISHWANATH. I.A.
Chief Executive Officer



CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory
NABL - Accredited Laboratory as per ISO / IEC-17025 :2005



Job No.: CTCE/BBMP/W.No.02/L/CSR.1/749c/SAND-Gradation/2014-15

: 30.01.2015

TEST REPORT ON DETERMINATION GRADATION OF FINE AGGREGATES

* Customer : Asst. Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
* Agency : Mr. Lingaraju,
95, 5th Cross, C.T. Bed, B.S.K 2nd Stage, Bangalore.
* Name of Work : Providing CC Covering to existing SWD Drain near Easwarappa House
Kamakshamma Layout in Ward No.02 of Yelahanka Sub Division, BBMP, Bangalore.
Reference : AEE/BBMP/YSD/AE-2/2014-15 Dated: 28.01.2015
Technical Reference : IS : 2386 Part 1 - 1963 RA-2007
Sample ID : Fine Aggregates - (Sample - 1)
Sample Received on : 28.01.2015
Date of Testing : 30.01.2015

Total Wt. of Aggregates in gms 1000

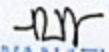
Is Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA- 2007)			
		Zone-I	Zone-II	Zone-III	Zone-IV
10	100	100	100	100	100
4.75	94.18	90-100	90-100	90-100	95-100
2.36	81.81	60-95	75-100	85-100	95-100
1.18	57.25	30-70	55-90	75-100	90-100
600 Micron	24.58	15-34	35-59	60-79	80-100
300 Micron	11.35	5-20	8-30	12-40	15-50
150 Micron	3.80	0-10	0-10	0-10	0-15

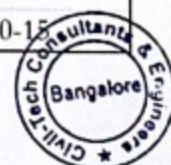
* Information is furnished by the Customer/Representative

Remarks : This sample is under Zone-I specific limits.

Note:

1. The report shall not be reproduced, except in full, without the written approval of the laboratory.
2. The results indicated above are based on the tests carried out on the samples received in the laboratory.
3. Any Query regarding the report must be reported within 30 days from the date of testing.


VISHWANATH. I.A.
Chief Executive Officer



#23/14, 7th Cross, 3rd Stage, 4th Block, Shakthi Ganapathi Nagara, Basaveshwaranagar, Bangalore-79.

Tele Fax : 23223227, Website : www.civiltechconsultants.com

E-mail : vishwanath.ia@civiltechconsultants.com / info@civiltechconsultants.com

AE-2
AE-1



CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

NABL - Accredited Laboratory as per ISO / IEC-17025 :2005



Job No.: CTCE/BBMP/W.No.02/L/CSR.1/749c/AGG/GR/2014-15

: 30.01.2015

TEST REPORT ON DETERMINATION GRADATION OF COARSE AGGREGATES

* **Customer** : Asst. Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.

* **Agency** : Mr. Lingaraju,
95, 5th Cross, C.T. Bed, B.S.K 2nd Stage, Bangalore.

* **Name of Work** : Providing CC Covering to existing SWD Drain near Easwarappa House
Kamakshamma Layout in Ward No.02 of Yelahanka Sub Division, BBMP,
Bangalore.

Reference : AEE/BBMP/YSD/AE-2/2014-15 Dated: 28.01.2015

Technical Reference : IS : 2386 Part 1 -1963 RA-2007

Sample ID : Coarse Aggregates (20mm) – (Sample – 1)

Sample Received on : 28.01.2015

Date of Testing : 30.01.2015

Total Wt. of Aggregates in gms= 5000

Is Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS :383-1970 (RA- 2007)	
		Graded	Single Sized
40	100	100	100
20	97.70	95-100	85-100
10	35.22	25-55	0-20
4.75	5.52	0-10	0-5

* Information is furnished by the Customer/Representative

Remarks : This sample is under Graded specific limits

Note:

1. The report shall not be reproduced, except in full, without the written approval of the laboratory.
2. The results indicated above are based on the tests carried out on the samples received in the laboratory.
3. Any Query regarding the report must be reported within 30 days from the date of testing.



VISHWANATH. I.A.
Chief Executive Officer

#23/14, 7th Cross, 3rd Stage, 4th Block, Shakthi Ganapathi Nagara, Basaveshwaranagar, Bangalore-79.

Tele Fax : 23223227, Website : www.civiltechconsultants.com

E-mail : vishwanath.ia@civiltechconsultants.com / info@civiltechconsultants.com



CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory
NABL - Accredited Laboratory as per ISO / IEC-17025 : 2005

Job No. CTCE/BBMP/W.No.02/L/STEEL/2014-15

04.02.2015

TEST REPORT ON REINFORCEMENT STEEL

Customer : Asst. Executive Engineer, Yelahanka Sub Division,
BBMP, Bangalore.

Agency : Mr. Lingaraju,
95, 5th Cross, C.T. Bed, B.S.K 2nd Stage, Bangalore.

Name of the work : Providing CC Covering to existing SWD Drain near
Easwarappa House Kamakshamma Layout in Ward No.02
of Yelahanka Sub Division, BBMP, Bangalore.

Reference : AEE/BBMP/YSD/AE-2/2014-15 Dated: 28.01.2015

Date of Test : 04.02.2015

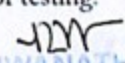
Technical Reference : IS: 1786-2008

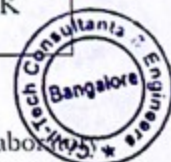


SL No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yie ld stress N/mm ²	Tensile strength (Ultimate stress) N/mm ²	Elongation percent gauge length		
1	10	0.62	513	556	13.45	O.K	O.K

Note:

- ⇒ The report shall not be reproduced, except in full, without the written approval of the laboratory.
- ⇒ The results indicated above are based on the tests carried out on the samples received in the laboratory.
- ⇒ Any Query regarding the report must be reported within 30 days from the date of testing.


VISHWANATH. I.A.
Chief Executive Officer



A E 2
⑥
A E 2



CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory
NABL - Accredited Laboratory as per ISO / IEC-17025 : 2005

Job No.: CTCE/BBMP/W.No.02/L/STEEL/2014-15

04.02.2015

TEST REPORT ON REINFORCEMENT STEEL

Customer : Asst. Executive Engineer, Yelahanka Sub Division,
BBMP, Bangalore.

Agency : Mr. Lingaraju,
95, 5th Cross, C.T. Bed, B.S.K 2nd Stage, Bangalore.

Name of the work : Providing CC Covering to existing SWD Drain near
Easwarappa House Kamakshamma Layout in Ward No.02
of Yelahanka Sub Division, BBMP, Bangalore.

Reference : AEE/BBMP/YSD/AE-2/2014-15 Dated: 28.01.2015

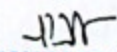
Date of Test : 04.02.2015

Technical Reference : IS: 1786-2008

Sl. No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm ²	Tensile strength (Ultimate stress) N/mm ²	Elongation percent gauge length		
1	12	0.89	515	558	13.70	O.K	O.K

Note:

- ⇒ The report shall not be reproduced, except in full, without the written approval of the laboratory.
- ⇒ The results indicated above are based on the tests carried out on the samples received in the laboratory.
- ⇒ Any Query regarding the report must be reported within 30 days from the date of testing.


VISHWANATH. I.A.
Chief Executive Officer

#23/14, 7th Cross, 3rd Stage, 4th Block, Shakthi Ganapathi Nagara, Basaveshwaranagar, Bangalore-79.

Tele Fax : 23223227, Website : www.civiltechconsultants.com

E-mail : vishwanath.ia@civiltechconsultants.com / info@civiltechconsultants.com

AE 2
07
AKS



CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory
NABL - Accredited Laboratory as per ISO / IEC-17025 : 2005

Job No.: CTCE/BBMP/W.No.02/L/STEEL/2014-15

04.02.2015

TEST REPORT ON REINFORCEMENT STEEL

Customer : Asst. Executive Engineer, Yelahanka Sub Division,
BBMP, Bangalore.

Agency : Mr. Lingaraju,
95, 5th Cross, C.T. Bed, B.S.K 2nd Stage, Bangalore.

Name of the work : Providing CC Covering to existing SWD Drain near
Easwarappa House Kamakshamma Layout in Ward No.02
of Yelahanka Sub Division, BBMP, Bangalore.

Reference : AEE/BBMP/YSD/AE-2/2014-15 Dated: 28.01.2015

Date of Test : 04.02.2015

Technical Reference : IS: 1786-2008



SL No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yie ld stress N/mm ²	Tensile strength (Ultimate stress) N/mm ²	Elongation percent gauge length		
1	16	1.58	520	563	13.95	O.K	O.K



Note:

- ⇒ The report shall not be reproduced, except in full, without the written approval of the laboratory.
- ⇒ The results indicated above are based on the tests carried out on the samples received in the laboratory.
- ⇒ Any Query regarding the report must be reported within 30 days from the date of testing.

VISHWANATH. I.A.
Chief Executive Officer

AE 2
07
A/EK



CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

NABL - Accredited Laboratory as per ISO / IEC-17025 :2005



Job No.: CTCE/BBMP/W.No.02/L/CSR.1/749c/CUBE/2014-15

16.03.2015

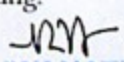
TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

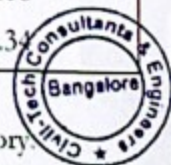
- * **Customer** : Asst. Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
- * **Agency** : Mr. Lingaraju,
95, 5th Cross, C.T. Bed, B.S.K 2nd Stage, Bangalore.
- * **Name of the work** : Providing CC Covering to existing SWD Drain near Easwarappa House
Kamakshamma Layout in Ward No.02 of Yelahanka Sub Division, BBMP,
Bangalore.
- * **Reference** : AEE/BBMP/YSD/AE-2/2014-15 Dated: 28.01.2015
- * **Sample ID** : Cement Concrete
- Size of cubes** : 150mmx150mmx150mm
- Cross Sectional Area** : 22500 mm²
- Technical Reference** : IS: 516-1959 (Reaffirmed 2008)
- * **Grade of Concrete** : M₂₀
- Compressive Strength as o:** 28th day
- Sample Received on** : 16.02.2015

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm ²)
1	16.02.2015	16.03.2015	8.184	496.5	22.07
2	16.02.2015	16.03.2015	8.362	519.3	23.08
3	16.02.2015	16.03.2015	8.287	502.7	22.34

Note:

1. The report shall not be reproduced, except in full, without the written approval of the laboratory.
2. The results indicated above are based on the tests carried out on the samples received in the laboratory.
3. Any Query regarding the report must be reported within 30 days from the date of testing.


VISHWANATH. I.A.
Chief Executive Officer



AE-2
07
AEE